

LTIO14

CLASS OF CYCLIC BASED ESTIMATORS FOR FREQUENCY OFFSET ESTIMATORS 13

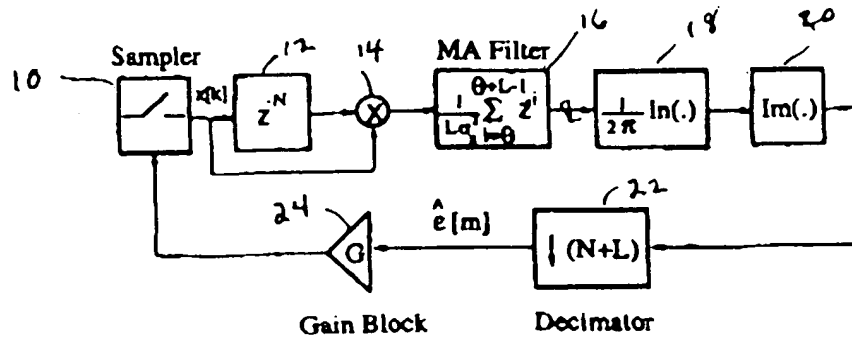
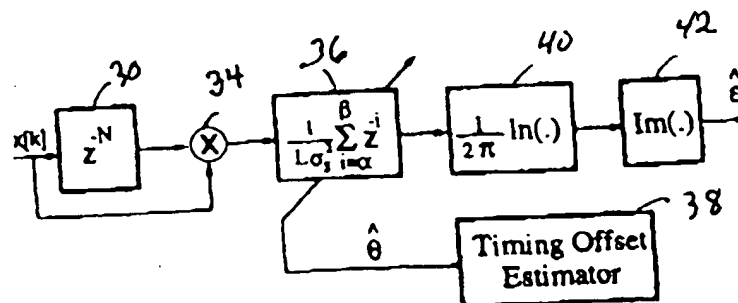


FIG. 1 Closed Loop Offset Estimator

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Estimator	α	β
ML	θ_{ML}	$\theta_{ML} + L - 1$
MVU	θ	$\theta + L - 1$
Moment	0	$N + L - 1$

FIG. 2 Unified Structure for Class of Cyclic Based Estimators

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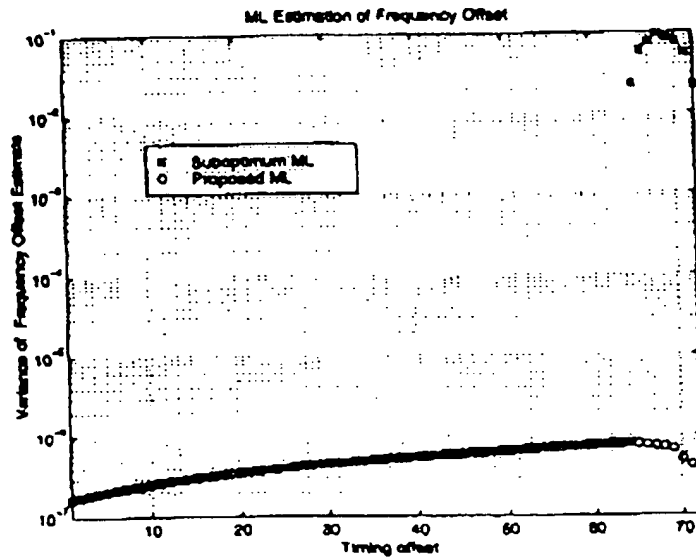


FIG. 3 Comparison Between Proposed and Suboptimum ML Frequency Offset Estimator

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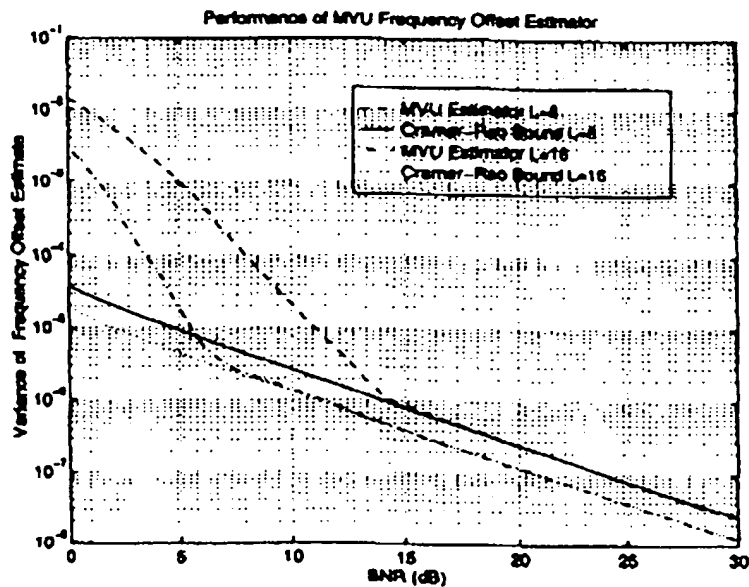


FIG. 4 Performance of MVU Estimator as a Function of SNR

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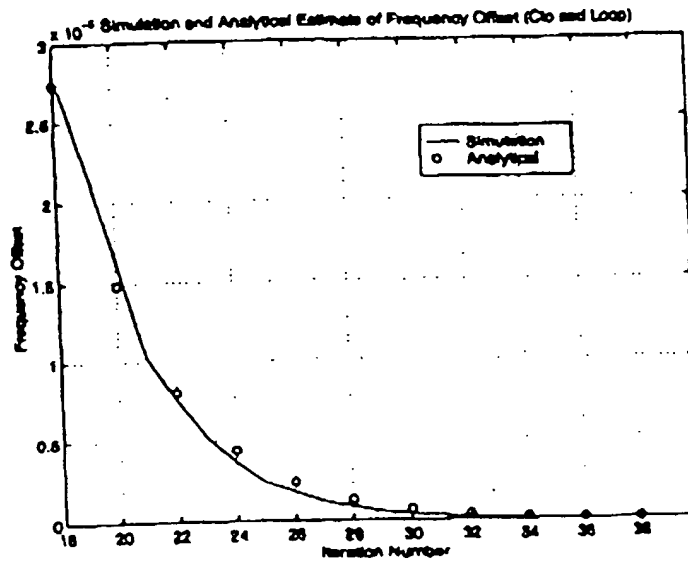


FIG. 5 Closed Loop Performance of MVU estimator

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